

FEATURES



SPECIFIC CAMERA KEY FEATURES

XC-HR50

- ◆ 1/3 type progressive scan CCD with square pixels
- ◆ VGA resolution (648 x 494 pixels) image capturing at a speed of 60 full frames/sec.
- ◆ High-rate scanning of up to 240 partial frames/sec. (effective line: 100 lines) (at restart/reset ON, binning OFF)
- ◆ Partial Scan controlled by VD pulse length
- ◆ Minimum illumination: 1.0 lux at F1.4
- ◆ High S/N ratio: 58 dB
- ◆ Electronic shutter: 1/100 to 1/30,000 sec.
- ◆ No IR cutoff filter

XC-HR70

- ◆ 1/3 type progressive scan CCD with square pixels
- ◆ XGA resolution (1,024 x 768 pixels) image capturing at a speed of 29 full frames/sec.
- ◆ High-rate scanning of up to 120 partial frames/sec. (effective line: 152 lines) (at restart/reset ON, binning OFF)
- ◆ High Resolution: 800 TV lines
- ◆ Partial Scan controlled by VD pulse length
- ◆ Minimum illumination: 1.0 lux at F1.8
- ◆ High S/N ratio: 56 dB
- ◆ Electronic shutter: 1/100 to 1/20,000 sec.
- ◆ No IR cutoff filter

XC-HR57

- ◆ 1/2 type progressive scan CCD with square pixels
- ◆ VGA resolution (648 x 494 pixels) image capturing at a speed of 60 full frames/sec.
- ◆ High rate scanning of up to 240 binned frames/sec. (effective line: 100 lines) (at restart/reset ON, binning OFF)
- ◆ Partial scan controlled by VD pulse length
- ◆ Minimum illumination: 1.0 lux at F1.4
- ◆ High S/N ratio: 58 dB
- ◆ Electronic shutter: 1/100 to 1/30,000 sec.
- ◆ No IR cutoff filter

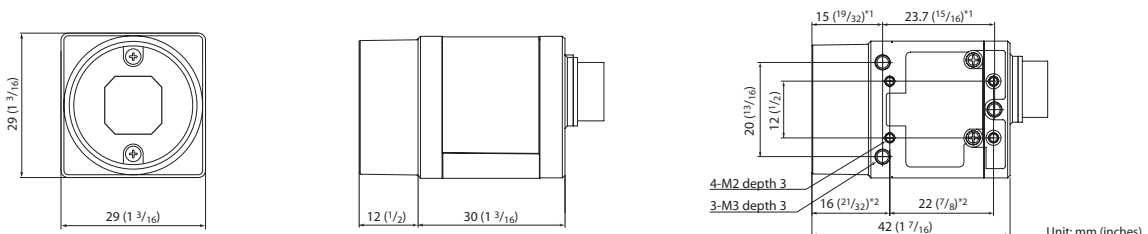
XC-HR58

- ◆ 1/2 type progressive scan CCD with square pixels
- ◆ High SVGA resolution (767 x 580 pixels) image capturing at a speed of 50 full frames/sec.
- ◆ High-rate scanning of up to 200 binned frames/sec. (effective line: 90 lines) (at restart/reset ON, binning OFF)
- ◆ Partial scan controlled by VD pulse length
- ◆ Minimum illumination: 1.0 lux at F1.4
- ◆ High S/N ratio: 56dB
- ◆ Electronic shutter: 1/100 to 1/30,000 sec.
- ◆ No IR cutoff filter

XC-56

- ◆ 1/3 type progressive scan CCD with square pixels
- ◆ VGA resolution (659 x 494 pixels) image capturing at a speed of 30 frames/sec.
- ◆ Minimum illumination: 0.5 lux at F1.4
- ◆ High S/N ratio: 58 dB
- ◆ Electronic shutter: 1/100 to 1/15,000 sec.
- ◆ Pin out compatible with Sony XC-55 camera

DIMENSIONS - XC-HR50/XC-HR70/XC-56/XC-HR57/XC-HR58 CAMERAS



*1: for 3-M3 screw *2: for 4-M2 screw

SPECIFICATIONS

| | XC-HR50 | XC-HR70 | XC-56 | XC-HR57 | XC-HR58 |
|--|--|--|---|--|--|
| Image device | 1/3 type IT Progressive Scan CCD | | | 1/2 type IT Progressive Scan CCD | |
| Effective picture elements | 659(H) x 494(V) | 1024(H) x 768(V) | 659(H) x 494(V) | 659(H) x 494(V) | 782(H) x 582(V) |
| Image size | VGA size: 648 (H) x 494 (V) | XGA size: 1,024 (H) x 768 (V) | VGA size: 648 (H) x 494 (V) | VGA size: 648 (H) x 494 (V) | SVGA size: 767 (H) x 580 (V) |
| CCD vertical drive frequency | 31.468 kHz ± 1 % | 23.23 kHz ± 1 % | 15.734 kHz ± 1 % | 31.468 kHz ± 1 % | 31.25 kHz ± 1 % |
| Lens mount | C-Mount | | | | |
| Flange back | 17.526 mm | | | | |
| Sync system | Int/Ext | | | | |
| External sync signal | HD/VD | | | | |
| Scanning system | Normal: 525 lines Non-Interlace : 1/60s Binning: 263 lines, 1/120s | Normal: 796 lines (23.23kHz) Non-Interlace(1N mode) : 1/29.2s Non-interlace(1N, binning): 1/58.4s | Normal: 525 lines Non-Interlace : 1/30s Binning: 263 lines, 1/60s | Normal: 525 lines Non-Interlace : 1/60s Binning: 263 lines, 1/120s | Normal: 625 lines Non-Interlace : 1/50s Binning: 313 lines, 1/100s |
| Output signal frequency | 59.94 Hz (normal mode), 119.88 Hz (binning mode) | 29.2 Hz (normal mode), 58.4 Hz (binning mode) | 29.97 Hz (normal mode), 59.94 Hz (binning mode) | 59.94 Hz (normal mode), 119.88 Hz (binning mode) | 50.0 Hz (normal mode), 99.8 Hz (binning mode) |
| Video output | 1.0 Vp-p, sync negative, 75 Ω, unbalanced | 1.0 Vp-p, sync negative, 75 Ω, unbalanced | 1.0 Vp-p, sync negative, 75 Ω, unbalanced | 1.0 Vp-p, sync negative, 75 Ω, unbalanced | 1.0 Vp-p, sync negative, 75 Ω unbalanced |
| Output connector | 12 pin (New EIAJ) | 12 pin (New EIAJ) | 12 pin | 12 pin (New EIAJ) | 12 pin (New EIAJ) |
| Horizontal resolution | 500 TV lines | 800 TV lines | 500 TV lines | 500 TV lines | 600 TV lines |
| Sensitivity | 400 lux F5.6 (Fix Gain 0 dB) | 400 lux F5.6 (Fix Gain 0 dB) | 400 lux F8 (Fix Gain 0 dB) | 400 lux F5.6 (Fix Gain 0 dB) | |
| Min. illumination | 1.0 lux (F1.4, Manual gain Max) | 1.0 lux (F1.8, Manual gain Max) | 0.5 lux (F1.4, Manual gain Max) | 1.0 lux (F1.4, Manual gain Max) | 1.0 lux (F1.4, Manual gain Max) |
| S/N ratio | 58 dB | 56 dB | 58 dB | 58 dB | 56dB |
| Gain | Fix/Manual | | | | |
| Gamma | OFF fixed | | | | |
| White clip | 820 mV ± 70 mV (F1.4, Fix Gain) | 820 mV ± 70 mV (F1.8, Fix Gain) | 820 mV ± 70 mV (F1.4, Fix Gain) | 820 mV ± 70 mV (F1.4, Fix Gain) | 820 mV ± 70 mV (F1.4, Fix Gain) |
| Shutter | Normal shutter, Restart/Reset, External trigger shutter (Mode 1/MODE 2) | | | | |
| Normal shutter speed | OFF to 1/30,000s switchable at rear panel | OFF to 1/20,000s switchable at rear panel | OFF to 1/15,000s switchable at rear panel | OFF to 1/30,000s switchable at rear panel | OFF to 1/30,000s switchable at rear panel |
| External trigger shutter speed | 1/4 to 1/100,000s | | | | |
| High Rate Scanning | | | | | |
| R/R mode Binning off: | Max 240 frames/s (effective line: 102 lines) | Max 120 frames/s (effective line: 152 lines) | Max 120 frames/s (effective line: 102 lines) | Max 240 frames/s (effective line: 102 lines) | Max 200 frames/s (effective line: 90 lines) |
| R/R mode Binning on: | Max 360 frames/s (effective line: 59 lines) | Max 180 frames/s (effective line: 89 lines) | Max 180 frames/s (effective line: 59 lines) | Max 360 frames/s (effective line: 59 lines) | Max 300 frames/s (effective line: 52 lines) |
| External trigger shutter mode (MODE 1) Binning off : | Max 240 frames/s (effective line: 100 lines) | Max 120 frames/s (effective line: 153 lines) | Max 120 frames/s (effective line: 100 lines) | Max 240 frames/s (effective line: 100 lines) | Max 200 frames/s (effective line: 88 lines) |
| External trigger shutter mode (MODE 1) Binning on: | Max 360 frames/s (effective line: 57 lines) | Max 180 frames/s (effective line: 90 lines) | Max 180 frames/s (effective line: 57 lines) | Max 360 frames/s (effective line: 57 lines) | Max 300 frames/s (effective line: 53 lines) |
| Power requirements | DC 12 V (+10.5 to 15 V) | DC 12 V (+10.5 to 15 V) | DC 12 V (+10.5 to 15 V) | DC 12 V (+10.5 to 15 V) | DC 12 V (+10.5 to 15 V) |
| Power consumption | 1.8 W | 2.0 W | 1.5 W | 1.8 W | 2.0 W |
| Dimensions(W x H x D) | 29 x 29 x 30 mm (1 3/16 x 1 3/16 x 1 3/16 inches) | | | | |
| Weight | 50 g / 2 oz | | | | |
| Operating temperature | -5 to 40°C (23 to 113 °F) | -5 to 40°C (23 to 113 °F) | -5 to 40°C (23 to 113 °F) | -5 to 40°C (23 to 113 °F) | -5 to 40°C (23 to 113 °F) |
| Storage temperature | -30 to 60 °C (-22 to 140 °F) | -30 to 60 °C (-22 to 140 °F) | -30 to 60 °C (-22 to 140 °F) | -30 to 60 °C (-22 to 140 °F) | -30 to 60 °C (-22 to 140 °F) |
| Operating humidity | 20 to 80 % (no condensation) | 20 to 80 % (no condensation) | 20 to 80 % (no condensation) | 20 to 80 % (no condensation) | 20 to 80 % (no condensation) |
| Storage humidity | 20 to 95 % (no condensation) | 20 to 95 % (no condensation) | 20 to 95 % (no condensation) | 20 to 95 % (no condensation) | 20 to 95 % (no condensation) |
| Vibration resistance | 10G (20 Hz to 200 Hz) | | | | |
| Shock resistance | 70 G | | | | |
| Regulation | UL 6500, FCC Class A Digital Device, CE (EN61326/97+A1/98), AS4251.1+A4252.1 | | | | |
| Supplied accessories | Lens mount cap (1), Operating instructions(1) | | | | |

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